

**Set Name Query**

side by side

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*L8 L6 AND L7L7 MATL6 L1 AND L2 AND L3 AND L5L5 FIRST SAME LAYER SAME THERMOPLASTIC  
RESINL4 SECOND SAME LAYER SAME THERMOPLASTIC  
RESINL3 FIBER OR FIBREL2 CARBONL1 COMPOSITE OR LAMINATE**Hit Count Set Name**

result set

64 L851638 L7252 L61386 L51 L4381089 L3586373 L2316932 L1

END OF SEARCH HISTORY



WEST

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## Search Results - Record(s) 1 through 7 of 7 returned.

☒ 1. Document ID: US 6140907 A

L2: Entry 1 of 7

File: USPT

Oct 31, 2000

US-PAT-NO: 6140907

DOCUMENT-IDENTIFIER: US 6140907 A

TITLE: Carbon fiber contacting position sensor

DATE-ISSUED: October 31, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Shengli	Elkhart	IN		

US-CL-CURRENT: 338/160; 338/162, 338/202

## ABSTRACT:

A contacting position sensor that has a carbon fiber contactor tip design for long life and low wear characteristics. The position sensor has a housing and a resistive element and is located on a substrate mounted within the housing. A carbon fiber contactor is mounted within the housing and has a first and second beam and carbon fibers attached to an end of each of the beams. The carbon fibers are in electrical contact with the resistive element. The carbon fibers are attached to the beam by a conductive epoxy or the carbon fibers are attached to the beam by a crimping. The contactor is attached to a rotor or a drive arm.

11 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachment

KDC | Drawings | Image

☒ 2. Document ID: US 6104357 A

L2: Entry 2 of 7

File: USPT

Aug 15, 2000

US-PAT-NO: 6104357

DOCUMENT-IDENTIFIER: US 6104357 A

TITLE: Electrode with multiple carbon fibre contact surface

DATE-ISSUED: August 15, 2000

## INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Brage; Anders	Sollentuna			SE

US-CL-CURRENT: 343/867; 343/742, 429/30

## ABSTRACT:

An electrode having a contact surface with the electrolyte consisting of a number of carbon fibers (1), and a method for the manufacture of an electrode where a number of carbon fibers (1) are wound into a carbon fiber skein (2) whereupon the skein (2) is gathered together at a connection area and embedded to form a connecting stud (5), which is then treated so that the end surfaces (6) appear of all the carbon fibers gathered together in the connecting stud (5), after which the carbon fiber end surfaces (6) are connected to a signal conductor (8). And an antenna (12) comprising electrically connected electrodes where the contact surface of each electrode with the electrolyte consists of a number of carbon fibers (1).

10 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Class	Front	Review	Classification	Date	Reference	Sequence	Attachments
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INNO	Date Recd	Image
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☒ 3. Document ID: US 5177529 A

L2: Entry 3 of 7

File: USPT

Jan 5, 1993

US-PAT-NO: 5177529

DOCUMENT-IDENTIFIER: US 5177529 A

TITLE: Machine with removable unit having two element electrical connection

DATE-ISSUED: January 5, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schroll; Ross E.	East Rochester	NY		
Folkins; Jeffrey J.	Rochester	NY		

US-CL-CURRENT: 399/125; 310/249, 310/251, 310/253, 399/91

## ABSTRACT:

An electrostatographic printing machine comprising a main frame and at least one unit insertable into and removable from said main frame for cooperative association therewith in producing prints, said main frame and said removable unit having at least one electrical connection to conduct electric current therebetween comprising two electrical contacting elements, one on each of said main frame and said removable unit a first element comprising a plurality of resiliently flexible conductive fibers arranged in a brush-like configuration and the second element comprising a substantially continuous conductive contact surface for electrical contact with said brush each of said contacting elements being connected to an electrical component.

43 Claims, 9 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 5



Full	Title	Citation	Print	Review	Classification	Date	Reference	Sequences	Attachments
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CMC	Draw Desc	Image
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☒ 4. Document ID: US 4855024 A

L2: Entry 4 of 7

File: USPT

Aug 8, 1989

US-PAT-NO: 4855024

DOCUMENT-IDENTIFIER: US 4855024 A

TITLE: Mesh electrodes and clips for use in preparing them

DATE-ISSUED: August 8, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Drachnik; Kenneth J.	Fremont	CA		
Kheder; Joseph	Newark	CA		
Aspey; S. Alan	Saratoga	CA		

US-CL-CURRENT: 205/734; 204/196.01, 204/196.3, 204/279, 204/284

## ABSTRACT:

Mesh anodes, particularly suitable for use in the cathodic protection of reinforcing bars in concrete, make use of resiliently deformable conductive clips. The clips secure together portions of the same or different elongate electrodes at spaced-apart junctions of a mesh formed by the electrode(s), thus providing electrical and mechanical connection between the electrode portions at the junctions.

17 Claims, 15 Drawing figures

Exemplary Claim Number: 15

Number of Drawing Sheets: 6

Full	Title	Citation	Print	Review	Classification	Date	Reference	Sequences	Attachments
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CMC	Draw Desc	Image
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☒ 5. Document ID: US 4762603 A

L2: Entry 5 of 7

File: USPT

Aug 9, 1988

US-PAT-NO: 4762603

DOCUMENT-IDENTIFIER: US 4762603 A

TITLE: Process for forming electrodes

DATE-ISSUED: August 9, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morin; Louis G.	Tarrytown	NY		

US-CL-CURRENT: 228/135; 174/74R, 204/280, 204/284, 204/288.6, 228/178, 439/874



## ABSTRACT:

The invention includes electrodes having a plurality of fibers wherein an essentially continuous metallic coating of high bond strength extends over at least a portion of each fiber, and wherein the fibers provide a large surface area. The electrodes of the invention have an efficient electrical connection at their terminals comprising fiber/metal matrices which provide the desired connections to the terminals without damage to the fibers. The fiber metal matrices also provide excellent electrical contact between all of the fibers, and inhibit wicking of the electrolyte or process stream into the electrical connections. Where the fibers are coated along a substantial portion of their length, they also have a high electrical conductivity. The invention further includes electro-chemical cells, and processes for forming and utilizing the electrodes and cells.

10 Claims, 29 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Field	Review	Classification	Date	Reference	Sequences	Attachment
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☒ 6. Document ID: US 4534366 A

L2: Entry 6 of 7

File: USPT

Aug 13, 1985

US-PAT-NO: 4534366  
DOCUMENT-IDENTIFIER: US 4534366 A

TITLE: Carbon fiber pacing electrode

DATE-ISSUED: August 13, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Soukup; Thomas M.	Palmdale	CA	93550	

US-CL-CURRENT: 607/121

## ABSTRACT:

An improved electrode tip (16) is disclosed which utilizes a plurality of carbon fibers (30) to form a portion of the electrode tip. These carbon fibers (30) are utilized to sense electrical activity within the user's heart, and in at least one embodiment to provide stimulation pulses to the heart. The fibers are chosen to have a cross-sectional diameter of less than 15 micrometers. These fibers form a limited porosity surface and allow a certain amount of tissue ingrowth, thereby providing passive electrode fixation. A body portion (24) of the electrode tip (16) forms an annular lip (32) which provides a surface for conducting stimulation pulses to the heart. Thus, a relatively small area is provided by the annular lip (32) for conduction of the stimulation pulses, thereby providing a high current density and less resistance. A larger surface area and a higher resistance is provided by the carbon fiber ends (44) for sensing electrical activity in the heart. In a still further embodiment of the invention, a porous retaining mesh (68) is located over a carbon fiber tip (66) for providing a more positive fixation by heart tissue ingrowth. The carbon fibers 30 are compressed to form a fiber compress in which the fibers form at least 85 percent of the compress volume.

20 Claims, 7 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1



Full	Title	Citation	Final	Review	Classification	Date	Reference	Sequences	Attachments
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☒ 7. Document ID: US 3619382 A

L2: Entry 7 of 7

File: USPT

Nov 9, 1971

US-PAT-NO: 3619382

DOCUMENT-IDENTIFIER: US 3619382 A

TITLE: PROCESS OF REDUCING METAL COMPOUNDS TO METAL IN A MATRIX

DATE-ISSUED: November 9, 1971

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lupinski; John H.	Scotia	NY		

US-CL-CURRENT: 205/709; 204/224R, 205/136, 205/158, 205/183

## ABSTRACT:

An improved process is described for electrochemically reducing specified metal oxides, and/or hydroxides, including hydrated metal oxides, in an elastomeric matrix to metal to provide an electrically conductive surface which can be metal plated. The matrix can be the entire composition or it can be a surface coating on a nonconductive substrate. The process is especially suitable for producing a multiplicity of conductive surfaces separated from each other by a nonconductive surface.

10 Claims, 3 Drawing figures Number of Drawing Sheets: 1

Full	Title	Citation	Final	Review	Classification	Date	Reference	Sequences	Attachments
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WISC	Draw Data	Image
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